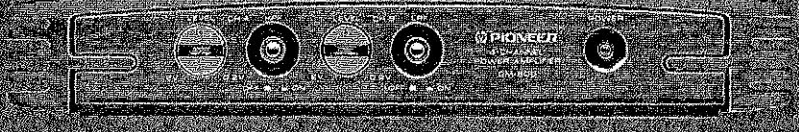
FOUR-CHANNEL POWER AMPLIFIER

AMPLIFICATEUR DE PUISSANCE 4 VOIES

OWNER'S MANUAL
MODE D'EMPLOI



PIONEER®

The Art of Entertainment

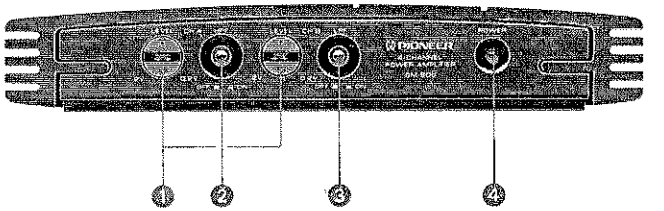
GM-8000

Features

- 25 W × 4 maximum output gives you sound with power to spare. The BPTL circuit means reduced distortion and improved frequency characteristics.
- Since 4-channel speaker output can be selected whether the RCA input to the amplifier is 2-channel or 4-channel, the amplifier can be connected to any kind of car stereo with RCA pin jacks.
- The high-pass filter switch (for speaker output A) and low-pass filter switch (for speaker output B) let you set up a 2-way multi-channel system or a system using component woofers.
- The large aluminum heatsink gives good radiation to help maintain stable power for extended periods.

Important
The serial number of this device is located on the bottom of the unit. For your own security and convenience, be sure to record the serial number on the enclosed warranty card. Keep it handy for future reference.

Controls and their Use



❶ Level Controls A and B
Level control A lets you adjust the volume of speaker output A; level control B, the volume of speaker output B. If the output is low even with the volume of the car stereo turned up, turn these controls clockwise. If there is distortion when the volume of the car stereo is turned up, turn these controls counterclockwise.

- Level controls A and B can be used to adjust the balance between speaker outputs A and B when the RCA input to the amplifier is 2-channel.

❷ High-Pass Filter Switch
Normally, set this switch to OFF.
Setting it to ON cuts off the low-range sounds in speaker output A. When setting up a 2-way multi-channel system, mid- and high-range speakers are used for speaker output A; at this time, set the switch to ON. If you connect full-range speakers to speaker output A, find the best setting for the switch by listening to some music.

❸ Low-Pass Filter Switch
Normally, set this switch to OFF.
Setting it to ON cuts off the mid- and high-range sounds in speaker output B. When setting up a 2- way multi-channel system, connect component woofers to speaker output B, and set the switch to ON.

❹ Power Indicator
The power indicator lights when the power is switched on.

Connecting the Units

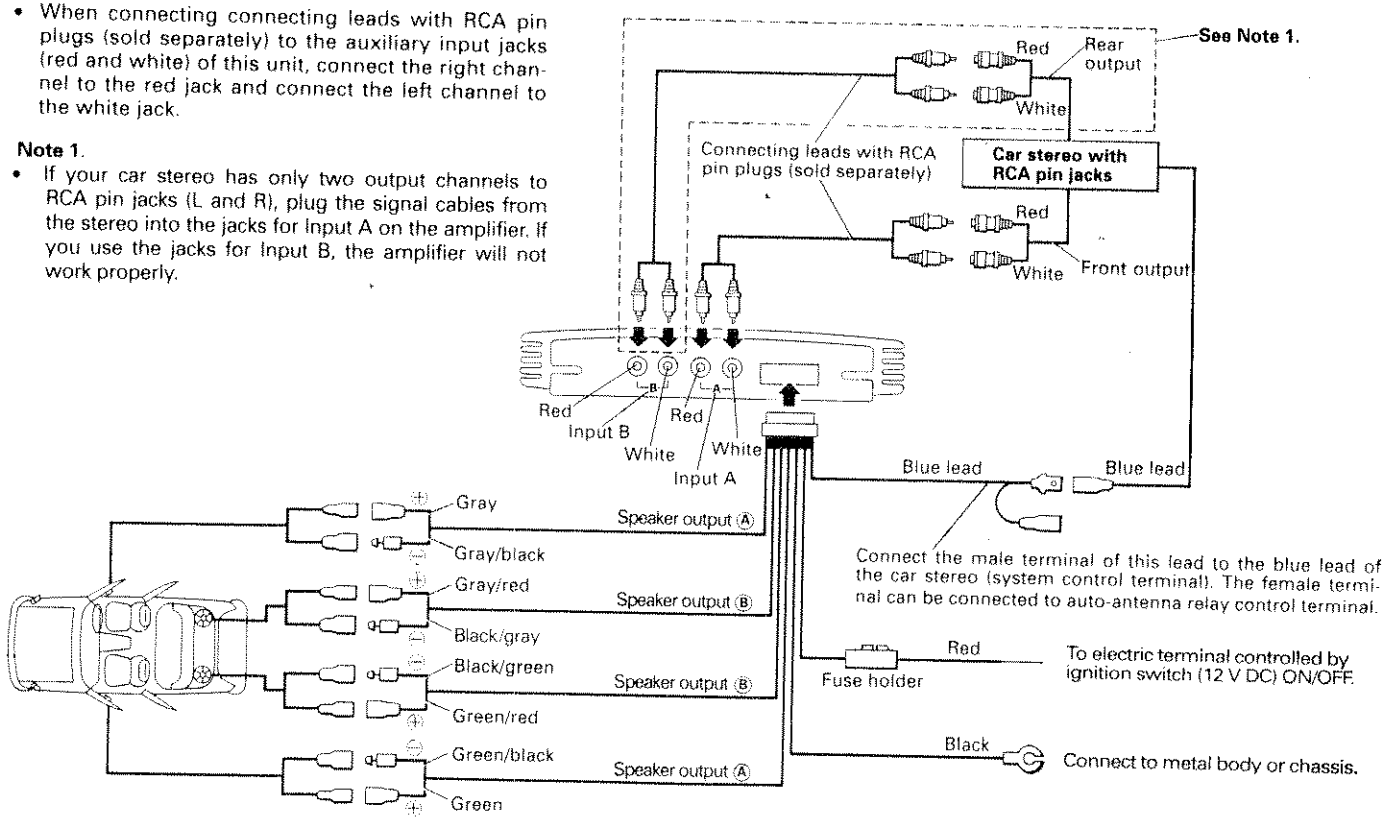
Connect the components correctly as shown in the diagram.

- Test-connect all components before securing them into place. Test-operate your entire car stereo system to ensure that there are no faulty wiring connections between this unit and the rest of your car stereo system.
- Speakers connected to this unit must be high power type with over 25 W maximum input power and have impedance between 4 and 8 ohms. Be aware of the fact that using a speaker other than the one specified can cause the speaker to be damaged.
- A special BPTL circuit is used to be sure that you do not connect the speaker directly to ground nor join the left and right speaker (–) leads.
- For detailed information concerning connections between different components and this unit consult their respective instruction manuals and follow those recommendations precisely.
- Wire all connecting leads so that they stay well clear of high-temperature areas such as the heater exhaust port.
- To ensure that all components used in combination with this unit operate properly, be sure to wire the main power supply cable (red) correctly to the respectively determined points. Failure to do so or errors in this process will result in total inoperation.
- Be sure to properly connect the color coded leads. Failure to do so can cause malfunctions.

- When connecting connecting leads with RCA pin plugs (sold separately) to the auxiliary input jacks (red and white) of this unit, connect the right channel to the red jack and connect the left channel to the white jack.

Note 1.

- If your car stereo has only two output channels to RCA pin jacks (L and R), plug the signal cables from the stereo into the jacks for Input A on the amplifier. If you use the jacks for Input B, the amplifier will not work properly.



Installation

- Be sure to use the parts supplied and install the unit securely. If parts other than those supplied (specified) are used, they may loosen or cause damage to internal parts.
- Be sure to install the unit in a places where the driver is not bothered and where there is no danger of passengers being injured in case of sudden stops.
- Be sure to consult your dealer before making any holes in the car.
- Cooling efficiency is degraded by making installations in hot places such as near the heater outlet, in the glove compartment and under floor mats that are tightly closed.
- To prevent short-circuits, be sure to disconnect the negative battery terminal before wiring the system up.
  When you finish the installation, be sure to make one more check to be sure everything is done correctly. Reinstall all car parts that were removed. Reconnect the negative battery lead.

1. Attaching the Brackets

Using the 4 × 8 mm screws supplied, attach the supplied pair of brackets to the bottom face of the unit as shown in Fig. 1. If the unit is installed directly on the car floor without using the supplied brackets it may overheat, causing the protection circuitry to operate.

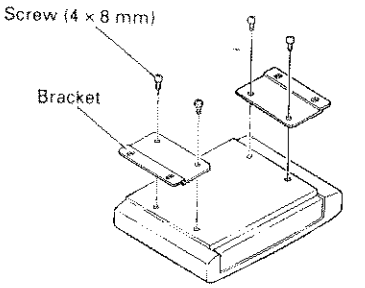


Fig.1

2. For Installation to the Floor Mat or Chassis

Install the unit on the floor mat or the chassis using the supplied tapping screws (5 × 16 mm). (Fig. 2)

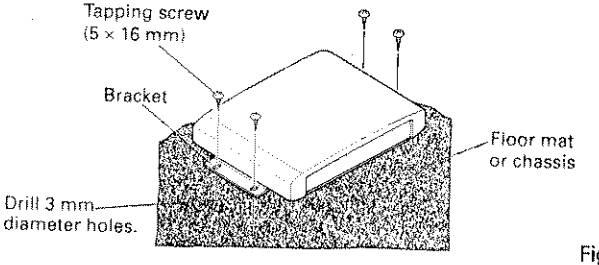


Fig.2

Care and Maintenance

- Enough care must be taken against battery overdischarge caused by long operation of the set at a high sound level when the engine is not running or is idling.
- The protection circuitry will operate instantaneously should any malfunctions occur, shutting off all sound. Under such circumstances, disconnect the power of the car stereo system, check the wiring for any possible causes and correct them before operating the stereo system again.
- When replacing the fuse, replace it with a fuse having the correct capacity.
- Dust the heat sinks occasionally so that they will not become clogged.

In Case of Trouble
When the unit does not operate properly, contact your dealer of the nearest authorized PIONEER Service Station.

Specifications

Power source	14.4 V DC (10.8–15.6 V allowable)
Grounding system	Negative type
Max. current consumption	8 A
Dimensions	190 (W) × 32 (H) × 130 (D) mm [7-1/2 (W) × 1-1/4 (H) × 5-1/8 (D) in.]
Weight	0.9 kg (2.0 lbs.) (Leads for wiring not included)
Maximum power output	25 W × 4
Continuous power output	
	15 W × 4 (at 4Ω, 1 kHz, 1% THD)
	12 W × 4 (at 4Ω, 30–20,000 Hz, 0.8% THD)
Load impedance	4 Ω (4–8 Ω allowable)
Frequency response	20–30,000 Hz (+0 dB, –3 dB)
Signal-to-noise ratio	91 dB (IHF-A network)
Distortion	0.03% (1 kHz)
Cut-off frequency	
(High-Pass Filter)	180 Hz
(Low Pass Filter)	180 Hz
Cut-off slope	
(High-Pass Filter)	–12 dB/octave
(Low-Pass Filter)	–12 dB/octave
Input level	0.2–2 V/15kΩ

This specification were determined and are presented in accordance with specification standards established by the Ad Hoc Committee of Car Stereo Manufacturers.

Note:
Specifications and the design are subject to possible modification without notice due to improvements.